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WC 9046072 v1

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PTO/SB/08B (10-01)

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	
				Filing Date	
				First Named Inventor	
				Art Unit	
				Examiner Name	
Sheet <u>2</u> of <u>5</u>				Attorney Docket Number	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴ <small>Kind Code⁵ (if known)</small>				
	28	WO	96/32496				<input type="checkbox"/>
	29	WO	92/10568				<input type="checkbox"/>
	30	WO	96/17957				<input type="checkbox"/>
	31	WO	99/37085				<input type="checkbox"/>

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
DUP DUP DUP DUP DUP DUP DUP DUP	32	Chen et al., <i>Nucleic Acids Res.</i> , 23:2661-2668 (1995)	
	33	Singh et al., <i>Chem. Comm.</i> , 455-456 (1998)	
	34	Wengel J., <i>Acc. Chem Res.</i> , 32:301-310 (1998)	
	35	Palissa et al., <i>Z. Chem.</i> , 27:216 (1987)	
	36	Nielsen et al., <i>Science</i> 254: 1487-1500 (1991)	
	37	Uhlmann et al., <i>Angew. Chem. Int. Ed.</i> , 37:2708-2823 (1998)	
	38	Wemmer, D.E. et al., <i>Current Opinion in Structural Biology</i> , 7:355-361 (1997)	
	39	Walker, W.L. et al., <i>Biopolymers</i> , 44:323-334 (1997)	
	40	Zimmer, C et al., <i>U. Prog. Biophys. Molec. Bio.</i> , 47:31-112 (1986)	

Examiner Signature		Date Considered	<u>08/21/06</u>
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3

of 5

Complete if Known

Application Number	
Filing Date	
First Named Inventor	Dempsy, Robert O., et. al.
Art Unit	
Examiner Name	
Attorney Docket Number	

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DUP	41	Reddy, et al., Pharmacol. Therap., 84:1-111 (1999)	
DUP	42	Talon, T.A. et al. Science 289:1757-1760 (2000)	
DUP	43	Below et al., Nuc. Acid Res., 26:3360-3367 (1998)	
DUP	44	Sectle et al., J. Chem. Soc., Perkin Trans., 1:479-488 (1999)	
DUP	45	Ramzaeva et al. Helv. Chim. Acta 80:1809-1822 (1997)	
DUP	46	Vincent et al. J. Org. Chem., 64:991-997 (1999)	
DUP	47	Beaucage et al., Tetrahedron 48:2223-2311 (1992)	
DUP	48	Scheit, Nucleotide Analogs, John Wiley, New York (1986)	
DUP	49	Uhlman et al., Chemical Reviews, 90:343-384 (1990)	
DUP	50	Seela et al., Nucl. Acids Res., 28:3224-3232 (2000)	
DUP	51	Botiret et al., Nucl. Acids Res., 24:4660-4667 (1996)	
DUP	52	Sugimoto et al., Biochem 34:11211-11216 (1995)	
DUP	53	Santalucia et al. Biochem 36:10581-10595 (1997)	
DUP	54	Schutz et al., Biotechniques, 27:1218-22 (1999)	

Examiner
Signature*Rita AL*Date
Considered

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		Examiner Name	
Sheet 4 of 5	Attorney Docket Number		

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DUP	57	Blake et al., <i>Bioinformatics</i> , 15:370-5 (1999)	
DUP	58	Van Ness et al., <i>Nucleic Acids Res.</i> , 19:5143-5151 (1991)	
DUP	59	J. Chromatogr., B. <i>Biomed. Sci. Appl.</i> 739:139-150 (2000)	
DUP	60	Draper et al., <i>Biochemistry</i> 19:1774-1791 (1980)	
DUP	61	Pastinen T. et al., <i>Genome Res.</i> , 10:1031-42 (2000)	
DUP	62	Lyemichiev et al., <i>Nature Biotechnol.</i> , 17:293-296 (1999)	
DUP	63	Mueller et al., <i>Histochem. Cell Biol.</i> , 108:431-437 (1997)	
DUP	64	Capaldi et al., <i>Nuc. Acids Res.</i> , 28:E21 (2000)	
DUP	65	Eisen, et al., <i>Methods in Enzymology</i> , 309:170-205 (1999)	
DUP	66	Hacia et al., <i>J. Mol. Genet.</i> , 36:730-736 (1999)	
DUP	67	Smith et al., <i>Int. J. Oncol.</i> , 17:841-850 (2000)	
DUP	68	Zhang et al., <i>Nat. Biotechnol.</i> , 18:882-887 (2000)	

Examiner Signature	<i>htz al</i>	Date Considered	08/24/06
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		Filing Date	
		First Named Inventor	Dempsy, Robert O., et. al.
		Art Unit	
		Examiner Name	
Sheet 5 of 5	Attorney Docket Number		

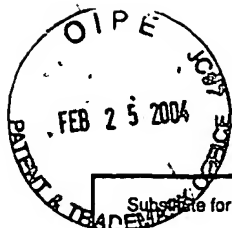
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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DUP	69	Flanagan et al., <i>Nat. Biotechnol.</i> , 14:1139-1145	
DUP	70	Livak et al., <i>PCT Meth. App.</i> 4:357-362 (1995)	
DUP	71	Heid et al., <i>Genome Res.</i> 6:986-994 (1996)	
DUP	72	Taylor et al., <i>Tetrahedron</i> , 48(97):8089-8100 (1992)	
DUP	73	Lohkov, S.G., <i>FEBS Letters</i> 420:134-138 (1997)	
DUP	74	Hall et al., <i>PNAS</i> 97:8272-77 (2000)	

Examiner Signature	<i>Al</i>	Date Considered	08/24/06
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PTO/SB/08A (08-03)

Subject for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
Application Number	10/672,429		
Filing Date	September 26, 2003		
First Named Inventor	Dempcy, Robert O.		
Art Unit	not yet assigned		
Examiner Name	not yet assigned		
Sheet 1 of 6	Attorney Docket Number 17682A-003650US		

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY 12/02/1999 n/a	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LA	1	09/457,616	n/a	Reed et al.	
	2	3,996,345	12-07-76	Ullman, et al.	
	3	4,351,760	09-28-82	Khanna et al.	
	4	4,358,535	11-09-82	Falkow et al.	
	5	4,683,195	07-28-87	Mullis, et al.	
	6	4,683,202	07-28-87	Mullis	
	7	4,800,159	01-24-89	Mullis et al.	
	8	4,868,105	09-19-89	Urdea et al.	
	9	5,124,246	06-23-92	Urdea, et al.	
	10	5,177,196	01-05-93	Meyer, Jr., et al.	
	11	5,210,015	05-11-93	Gelfand, et al.	
	12	5,419,966	05-30-95	Reed, et al.	
	13	5,449,767	09-12-95	Ward, et al.	
	14	5,484,908	01-16-96	Froehler, et al.	
	15	5,492,806	02-20-96	Drmanac, et al.	
	16	5,512,667	04-30-96	Reed, et al.	
	17	5,525,464	06-11-96	Drmanac, et al.	
	18	5,556,749	09-17-96	Mitsuhashi, et al.	
	19	5,578,467	11-1996	Schuster et al.	
	20	5,585,481	12-17-96	Arnold, Jr., et al.	
	21	5,645,985	07-08-97	Froehler, et al.	
	22	5,696,251	12-09-97	Arnold, Jr., et al.	
	23	5,736,626	04-07-98	Mullah, et al.	
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	25	5,824,796	10-20-98	Petrie, et al.	
	26	5,869,251	02-1999	Schuster et al.	
	27	5,942,610	08-24-99	Nelson, et al.	
	28	6,084,102	07-2000	Kutyavin et al.	
	29	6,127,121	10-2000	Meyer et al.	
	30	6,143,877	11-2000	Meyer et al.	
	31	6,156,501	12-2000	McGall et al.	
	32	6,312,894	11-2001	Hedgpeth et al.	
	33	6,426,408	07-2002	Kutyavin et al.	
✓	34	6,683,173	01-2004	Dempcy et al.	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
Examiner Signature	Ruth AL				Date Considered	08/24/06		

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60137947 v1



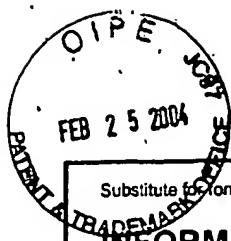
PTO/SB/08A (08-03)

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known	
		Application Number	10/672,429
		Filing Date	September 26, 2003
		First Named Inventor	Dempcy, Robert O.
		Art Unit	not yet assigned
		Examiner Name	not yet assigned
Sheet 2 of 6	Attorney Docket Number		17682A-003650US

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
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↓	36	WO	96/17957		06-1996			<input type="checkbox"/>
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Examiner Signature	<i>Art al</i>	Date Considered	08/24/06
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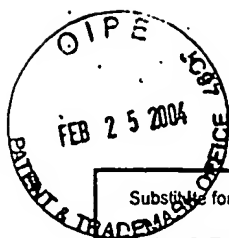
Substitute for Form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known			
		Application Number	10/672,429		
		Filing Date	September 26, 2003		
		First Named Inventor	Dempcy, Robert O.		
		Art Unit	not yet assigned		
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Sheet	3	of	6	Attorney Docket Number	17682A-003650US

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RLA	39	Balow et al., <i>Nuc. Acid Res.</i> , 26:3350-3357 (1998)	
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	41	Blake et al., <i>Bioinformatics</i> , 15:370-5 (1999)	
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	48	Geisen et al. <i>Nucl. Acids Res.</i> , 26:5004-5006 (1998)	
	49	Hacia et al., <i>J. Mol. Genet.</i> , 36:730-736 (1999)	
	50	Hall et al., <i>PNAS</i> 97:8272-77 (2000)	
	51	Heid et al., <i>Genome Res.</i> 6:986-994 (1996)	
	52	J. Chromatogr., <i>B. Biomed. Sci. Appl.</i> 739:139-150 (2000)	
	53	Livak et al., <i>PCT Meth. App.</i> 4:357-362 (1995)	
✓	54	Lohkov, S.G., <i>FEBS Letters</i> 420:134-138 (1997)	

Examiner Signature	<i>[Signature]</i>	Date Considered	02/24/06
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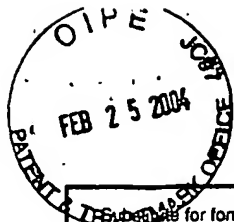
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		First Named Inventor	Dempcy, Robert O.		
		Art Unit	not yet assigned		
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	56	Mueller et al., <i>Histochem, Cell Biol.</i> , 108:431-437 (1997)	
	57	Nielsen et al. <i>Science</i> , 254: 1497-1500 (1991)	
	58	Owczarzy et al. <i>Biopolymers</i> , 44:217-239 (1997)	
	59	Palissa et al., <i>Z. Chem.</i> , 27:216 (1987)	
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	62	Reddy, et al., <i>Pharmacol. Therap.</i> , 84:1-111 (1999)	
	63	Santalucia et al., <i>Biochem</i> , 36:10581-10595 (1997)	
	64	Scheit, <i>Nucleotide Analogs</i> , John Wiley, New York (1980)	
	65	Schutz et al., <i>Biotechniques</i> , 27:1218-22 (1999)	
	66	Seela et al., <i>J. Chem. Soc. Perkin Trans.</i> , 1:479-488 (1999)	
	67	Seela et al., <i>Nucl. Acids Res.</i> , 28:3224-3232 (2000)	
	68	Singh et al., <i>Chem. Comm.</i> , 455-456 (1998)	
	69	Smith et al., <i>Int. J. Oncol.</i> , 17:841-850 (2000)	
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Examiner Signature	<i>RAH AL</i>	Date Considered	08/21/06
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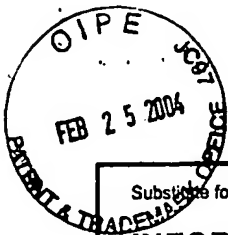
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	72	Taylor et al., <i>Tetrahedron</i> , 48(37):8089-8100 (1992)	
	73	Uhlman et al., <i>Chemical Reviews</i> , 90:543-584 (1990)	
	74	Uhlmann et al. <i>Angew. Chem. Int. Ed.</i> 37:2796-2823 (1998)	
	75	Van Ness et al., <i>Nucleic Acids Res.</i> , 19:5143-5151 (1991)	
	76	Vincent et al. <i>J. Org. Chem.</i> , 64:991-997 (1999)	
	77	Walker, W.L. et al., <i>Biopolymers</i> , 44:323-334 (1997)	
	78	Wemmer, D.E. et al., <i>Current Opinion in Structural Biology</i> , 7:355-361 (1997)	
	79	Wengel J., <i>Acc. Chem Res.</i> , 32:301-310 (1998)	
	80	Zhang et al., <i>Nat. Biotechnol.</i> , 18:862-867 (2000)	
	81	Zimmer, C et al., <i>U. Prog. Biophys. Molec. Bio.</i> 47:31-112 (1986)	
	82	Breslauer, K. J. et al.: "Predicting DNA duplex stability from the base sequence"; <i>Proc. Nat. Acad. Sci.</i> ; 83:3746-3750 (1986)	
	83	Chen, H. et al.: "Computer program for calculating the melting temperature of degenerate oligonucleotides used in PCR or hybridization"; <i>BioTechniques</i> ; 22:6:1158-1160 (1997)	
✓	84	Le Novere, N.: "MELTING, computing the melting temperature of nucleic acid duplex" <i>Bioinformatics</i> ; 17:12:1226-1227 (2001)	

Examiner Signature	<i>Robert A. Dempcy</i>	Date Considered	08/29/06
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08B (08-03)

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known			
		Application Number	10/672,429		
		Filing Date	September 26, 2003		
		First-Named Inventor	Dempcy, Robert O.		
		Art Unit	not yet assigned		
		Examiner Name	not yet assigned		
Sheet	6	of	6	Attorney Docket Number	17682A-003650US

Examiner Signature	<i>Rita Al</i>	Date Considered	<i>08/24/06</i>
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² Applicant's unique citation designation number (optional). ³ Applicant is to place a check mark here if English language Translation is attached.



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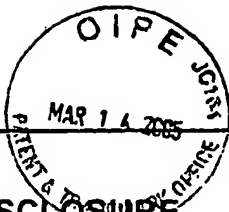
Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/672,429		
		Filing Date	September 26, 2003		
		First Named Inventor	Dempsy, Robert O.		
		Art Unit	1623		
		Examiner Name	Not yet assigned		
Sheet	1	of	2	Attorney Docket Number	17682A-003650US

U.S. PATENT DOCUMENTS+						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
RA	A1	US-5,594,121		01-1997	Froehler et al.	
	A2	US-5,849,482		12-1998	Meyer et al.	
	A3	US-6,339,147		01-2002	Lukhtanov et al.	
	A4	US-10/302,607		11/20/2002	Petrie et al.	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number ⁴					
		Country Code ³	Kind Code ⁵ (if known)				
RA ↓	B5	WO	84/03285		08-30-1984	Molecular Biosystems	<input type="checkbox"/>
	B6	WO	90/03370		05-05-1990	Microprobe Corporation	<input type="checkbox"/>
	B7	WO	97/46313		12-11-1997	Array Technologies	<input type="checkbox"/>
	B8	WO	98/49180		11-05-1998	Epoch Pharmaceuticals, Inc.	<input type="checkbox"/>
	B9	WO	99/51775		10-14-1999	Epoch Pharmaceuticals, Inc.	<input type="checkbox"/>
	B10	WO	99/51621		10-14-1999	Epoch Pharmaceuticals, Inc.	<input type="checkbox"/>
	B11	WO	00/06771		02-10-2000	Affymetrix, Inc.	<input type="checkbox"/>
	B12	WO	02/12263		02-14-2002	Roche Diagnostics	<input type="checkbox"/>
	B13	EP	1103910	A1	05-30-2001	Schütz et al.	

Examiner Signature	<i>Robert O. Dempsy</i>	Date Considered	08/24/06
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PTO/SB/08B (08-03)

Substitute for form 1449B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/672,429	
			Filing Date	September 26, 2003	
			First Named Inventor	Dempcy, Robert O.	
			Art Unit	1623	
			Examiner Name	Not yet assigned	
Sheet	2	of	2	Attorney Docket Number	17682A-003650US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
RA	C14	CLERCQ, E.D. et al. "Nucleic Acid Related Compounds. 40. Synthesis and Biological Activities of 5-Alkynyluracil Nucleosides," <i>J. Med. Chem.</i> , Vol. 26, No. 5:661-666 (1983)	
	C15	CRUICKSHANK, K.A. et al. "Oligonucleotide Labelling: A Concise Synthesis Of A Modified Thymidine Phosphoramidite," <i>Tetrahedron Letters</i> , Vol. 29 No. 41, pp 5221-5224 (1988)	
	C16	GRAHAM, D. et al. "DNA duplexes stabilized by modified monomer residues: synthesis and stability," <i>J. Chem. Soc., Perkin Trans.</i> , 1:1131-1138 (1998)	
	C17	HOBBS, F. W., Jr. "Palladium-Catalyzed Synthesis of Alkynylamino Nucleosides. A Universal Linker for Nucleic Acids," <i>J. Org. Chem.</i> , 54:3420-3422 (1989)	
	C18	ROBINS, M.J. et al. "Nucleic Acid Related Compounds. 39. Efficient Conversion of 5-Iodo to 5-Alkynyl and Derived 5-Substituted Uracil Bases and Nucleosides," <i>J. Org. Chem.</i> , 48:1854-1862 (1983)	
	C19	SEELA, F. et al. "131. 8-Aza-7-deaza-2'-deoxyguanosine: Phosphoramidite Synthesis and Properties of Octanucleotides," <i>Helvetica Chimica Acta</i> , Vol. 71:1191-1197 (1988)	
	C20	SEELA, F. et al. "8-AZA-7-Deazapurine DNA: Synthesis And Duplex Stability Of Oligonucleotides Containing 7-Substituted Bases," <i>Nucleosides & Nucleotides</i> , 18(6&7):1399-1400 (1999)	
	C21	SEELA, F. et al. "Duplex Stability Of Oligonucleotides Containing 7-Substituted 7-DEAZA- AND 8-AZA-7-Deazapurine Nucleosides," <i>Nucleosides & Nucleotides</i> , 16(7-9):963-966 (1997)	
	C22	SEELA, F. et al. "Oligonucleotides Containing Pyrazolo [3,4-d] pyrimidines: The Influence of 7-Substituted 8-Aza-7-deaza-2'-deoxyguanosines on the Duplex Structure and Stability," <i>Helvetica Chimica Acta</i> , Vol. 82:1640-1655 (1999)	
	C23	SEELA, F. et al. "Synthesis of 7-alkynylated 8-aza-7-deaza-2'-deoxyadenosines via the Pd-catalysed cross-coupling reaction," <i>J. Chem. Soc., Perkin Trans.</i> , 1:3233-3239 (1998)	
✓	C24	SEELA, F. et al. "The Influence of Modified Purine Bases on the Stability of Parallel DNA," <i>Bioorganic & Medicinal Chemistry Letters</i> , 10:289-292 (2000)	

Examiner Signature	<i>RA AL</i>	Date Considered	<i>03/24/06</i>
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